

Current State of U.S. Manufacturing

- 1/3 of all manufactured products consumed in the U.S. are imported
- Trade deficit is more than \$500 Billion over 5% of GNP













Since the mid 20th Century... entering the global economy has meant

- Moving the products of human effort from an economy where labor is <u>under-valued</u> to an economy where labor is <u>over-valued</u>
- Enabled by reduction in the time and cost of transport
- Dramatic and permanent drop in electronic connection costs



In the 20th Century, for the first time...

- As much as 20% of the world lives in relative prosperity
- In the latter half, some entire nations were self-sufficient and mostly prosperous
- Great differences in economic conditions could be found by crossing a border



In the 20th Century

- Post-war Europe and Japan rebuilt through manufacturing
- Distribution of global wealth still distorted;
 1/5 of world population
 consumes 4/5 of resources



China

- For most of the 20th Century, withdrew from the world economic and cultural arena
- Re-entry caused enormous economic disruption in early 21st Century
- From rudimentary self-sufficiency their production became world-class

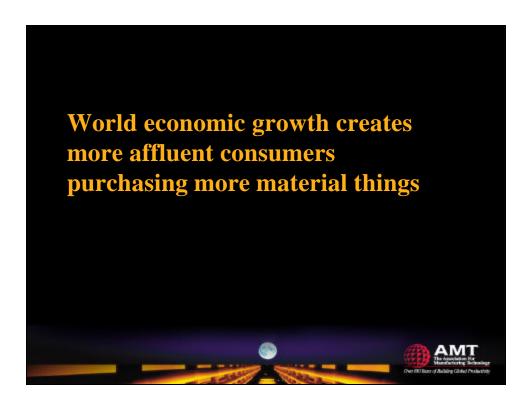






Through the 20th Century, freight costs continually fell due to improved "logistics" Automotive parts and consumer goods could be transported and distributed globally for no more than 5% to 10% of the cost of making the product





Products are...

- Made with less material, energy and labor
- Smaller, used commonly available materials, more functional than ever before
- Made when and where they are needed...
 and often customized



Here's what the Government should do...

The Government! • Boost nation's savings rate • Channel a large percentage of savings into industrial investment • Put legislation in place for development of manufacturing technologies • 1% of trade deficit funds this program





The Government! • Make investments in manufacturing technology infrastructure



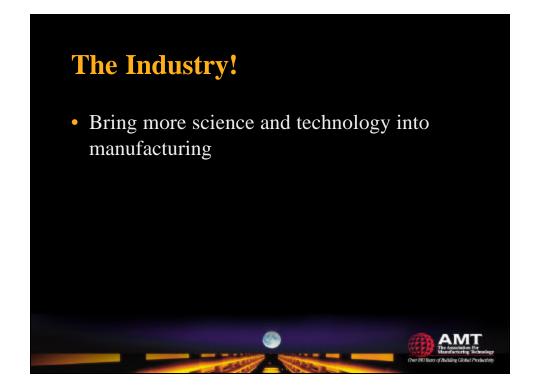
The Government! • A Cabinet level Department of Industrial Production was established **Production of the Production o



The Industry! • Recognize that U.S. competitive advantage comes from manufacturing process expertise



The Industry! • Use intellectual property to protect innovative manufacturing methods **Proceedings** **Procedure** **Pro



The Industry! • 2103 global manufacturing technology market will be 20 times 2003 in real terms



The Industry! • New willingness of customers "to change in order to compete" • Proven technology and recognized brand names